

## **S.ASWIN**

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An accomplished product development engineer with 10+ years of experience in automotive new product development. Having vast experience in passenger segment and off-road vehicle segment. Being a part of new product development team, I am very passionate about discovering extensive mobility solution for the business needs, Customer end problems and always been successful in creating a Minimum Viable Product. Also having thorough knowledge in Project Management

### **TOTAL EXPERIENCE: 12 Years and 7 months**

- Handling of New product development projects.
- Leading PACE Projects (VAVE / Cost optimization for Engine and its peripherals.
- Handling the regulation change independently for all the variants of the company.
- Have expertise in handling complete engine development process for both off-road segment and passenger vehicle segment.
- Good experience in dealing with suppliers for purchase of test facilities required for development tests of engines and its peripherals.
- Engine part level inspection during proto engine development.
- Good knowledge in analyzing engine related problems which affect the performance of engine and vehicle at alpha and beta stage of development.
- Testing and Development activities related to future technology products (Hybrid technology, Variable valve actuations, Valve deactivation)
- Material compatibility study of engine components while using alternate fuels like Ethanol / methanol – Gasoline blend fuels.
- Having more exposure on combustion optimization for diesel, gasoline, and alternate fuel engines.
- Experience in handling customer end complaints which we come across during initial phase of development. This is generally done with feedback from customer feedback vehicles (CUFT vehicle).
- Responsible in planning test bed activities.
- Good experience in analyzing engine test data.
- Have experience in handling entire project right from development phase till the launch of the products in the market.
- Have independently worked on problem solving of engine and its peripherals after initial phase of sales.
- Experience in handling Homologation activities of products independently.
- Hands on experience in using AVL Indicom, Keihin EMS, Mikuni EMS systems.

### **JOB RESPONSIBILITIES:**

#### **Roles and responsibilities at TVS motors; Hosur (March 2018 – till date)- Senior Manager, R&D – Powertrain**

- Leading PACE Projects for Engine Section (VAVE / Cost optimization) with CFT approach.
- Planning and Execution of projects for regulation change from OBDI to OBDIIA (All variants up to 225 CC) with CFT approach.
- Engine combustion stability and thermal mapping study for BSVI engines to understand the impact on the parts of the engine.
- Cylinder head valve train part level study in detail of all BSVI products at development stage.
- Individually handled in selection, purchase and installation process of transient dynamometers required for engine testing activities.
- Hands on experience in using keihin, Mikuni, INCA calibration tool for engine management system.

- Complete study/calibration of engine performance, emission and part level analysis of engine in order to study the impact of alternate fuel blends (Ethanol/Methanol – Gasoline fuel Blends)□
- Have contributed majorly in VAVE / Cost optimization of product by conducting a detailed study of parts used in engine level.□
- Detailed part level development and validation of future technology products like variable valve actuation system, Valve deactivation system.

**Roles and responsibilities at Kirloskar Oil Engines Ltd., Pune (April 2017 – February 2018)**

- Lead Homologation activities of all KOEL products at Engine level.
- Handled all the product testing and certification with ARAI for TA/COP.

**Roles and responsibilities at FORCE Motors Ltd., Pune (June 2015 – March 2017)**

- Completely involved in Performance and Emission development (TIIIA Emission norms) of 1.9 litres TCIC, TC engine for Tractor Application.
- Managing the entire development process at engine level and tractor level from the testing side.
- The entire testing plan was prepared and execution of test plans as per schedule.
- Preparation and release of test reports and deeper analysis of data using analytics software.
- Handled customer end complaints.

**Roles and responsibilities at AVTEC Ltd., Pithampur (November 2014 – May 2015)**

- Completely involved in testing and validation of TCIC diesel engines of 3.6 litres, 2.5 litres capacity for commercial vehicle applications.
- Planning of complete test bed activities in R&D.

**Roles and responsibilities at Simpson & Co. Ltd., Chennai (September 2010 – November 2014)**

- Engine performance and validation of Diesel engines for Tractor, Genset and Construction equipment vehicles □
- Engine performance, emission calibration of 3.6 litres, 2.7 litres Turbocharged inter cooled engines □
- Project planning and management for New Product development □
- Individually handled homologation, regulation activities of all the engine models at ARAI, ICAT□
- Planning and managing of engine test bed activities.□
- Maintenance of engine test beds as per the schedule of AMC.□

**ACADEMIC QUALIFICATION:**

- P.G – Post Graduate Diploma in Management (**Specialization in Marketing Management – Completed In May 2022) – AIMA**
- U.G – B.E Mechanical Engineering in St. Peter's engineering college  
Affiliated to ANNAUNIVERSITY – (From 2006 to 2010 with 69%).

- 12th STD – Studied in New Prince Matriculation School in 2005 – 2006 and 76.2%
- 10th STD – Studied in D.A.V Boy's School in 2003 – 2004 and Secured 82 %

**DECLARATION:**

I hereby declare that all the particulars furnished above are true to the best of my knowledge and belief.

**Date: 16.04.2023**

**Place: Bengaluru**

(S.Aswin)

